

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-26. (Cancelled)

27. (Currently Amended) A method comprising:

receiving a first digital image in a sequence of digital images and eye and mouth coordinates;

outputting eye and mouth coordinates on a subsequent digital image in the sequence of digital images; and

computing transformation parameters that represent a transformation from a base face model for the first digital image to a subsequent deformable model for the subsequent digital image;

wherein receiving comprises estimating the base face model, denoted M_b , and the base face model's transformation parameters, denoted T' , by the eye and mouth coordinates;

wherein outputting comprises:

calculating an initial model, denoted M , for the subsequent digital image as a transformed base model M_b using the transformation parameters T' ;

rotating the subsequent image to the first digital image, denoted $I(x,y)$, to generate a normalized model of the initial model M ;

calculating a horizontal and vertical gradient map on the rotated image; and

estimating new transformation parameters, denoted T^* , by minimizing an energy function $E(T,(x,y))$ representative of the goodness of fit between the transformed model and the corresponding digital image, and of the optimality of the new transformation parameters, where

T^* corresponds to the complex argument of the minimum of the energy function, denoted $\arg \min_T E(T, I(x, y))$.

28-30. (Cancelled)

31. (Currently Amended) The method of claim [[30]] 27 in which minimizing comprises a downhill simplex method with initial transformation parameters $T = T^*$.

32. (Currently Amended) The method of claim [[30]] 27 further comprising calculating the eye centers and the mouth corners by the transformed base model using the transformation parameters T^* .